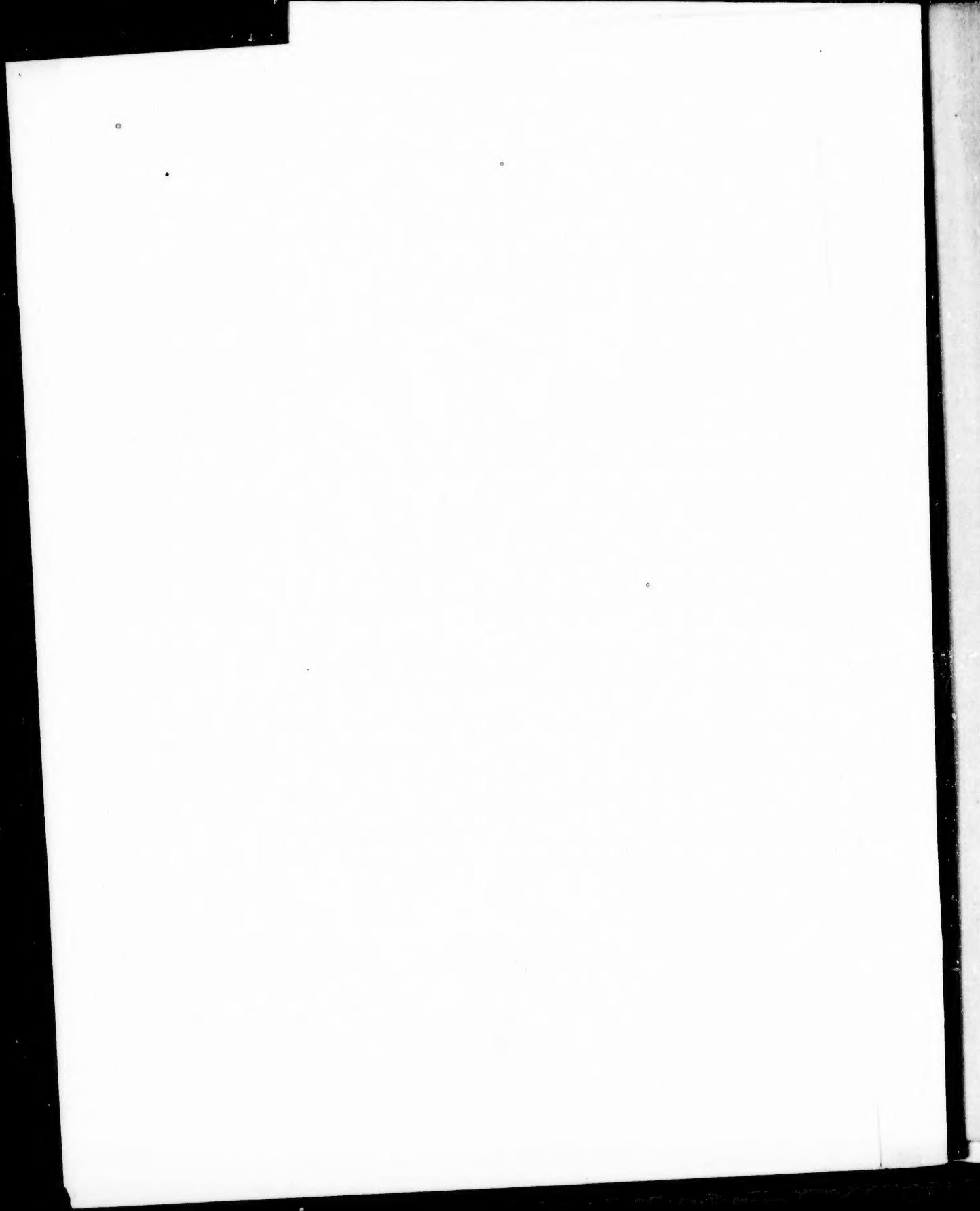




New Westminster, British Columbia.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS,

TAKEN AT THE ROYAL ENGINEER CAMP,

During the Year 1862, by order of Col. R. C. MOODY, R. E., Commanding the Troops.

LATITUDE, 49° 12' 47" N. LONGITUDE, 122° 53' 19" W.

					INCHES.	
The highest reading of the Barometer, corrected for temperature, was					30.517	9th Feb.
The mean height	do.	do.	do.	at 9.30. A.M.	29.983	
Do.	do.	do.	do.	do., at 3.30. P.M.	29.963	
The lowest	do.	do.	do.	.....	29.071	22nd Jan.
					DEGREES.	
Maximum temperature in sun's rays (black bulb,)					104.0	29th Aug.
Maximum temperature of Air, in shade					88.5	do.
Do.	do.	do.	.....	9.30. A.M.	73.9	23rd July.
Do.	do.	do.	.....	3.30. P.M.	86.0	28th Aug.
Mean temperature of Air, in shade.....					46.8	
Do.	do.	do.	.....	3.30. P.M.	51.2	
Minimum temperature of Air, in shade					2.0	below zero, 15th Jan.
Do.	do.	do.	.....	3.30. P.M.	6.0	15th Jan.
Minimum temperature on the Grass					15.0	below zero, 16th Jan.
Greatest amount of Humidity					1.000	
Mean	do.	do.	.....	9.30 A.M.	.842	
Do.	do.	do.	.....	3.30 P.M.	.772	
Least	do.	do.	.....	.....	.320	3rd Jan.

The cistern of the Barometer is about 54 feet above the level of the Sea. All the Observations were made at 9.30. A.M. and 3.30. P.M. daily throughout the year.

There were slight frosts nearly every night in the month of April, and once in May (16th;) they did not recommence until the 9th of October. The severe frosts of January, and February, have been unknown for many years.

Thunder and Lightning occurred on the 24th May, 24th July, and 22nd, 29th, and 30th of August.

Table shewing the depth of rain, the number of days on which it fell, the mean humidity (9.30. A.M. and 3.30. P.M.) mean temperature of the air in shade, and the lowest temperature on the grass in each month.

		INCHES.	DAYS.	HUMIDITY.	9.30. A.M.	3.30. P.M.	MIN. ON GRASS,
							15.0 below zero.
January	.....	3.480	9	.855	19.0	23.0	2.0
February	.....	5.727	8	.815	30.3	34.2	23.0
March	.....	5.830	17	.862	38.0	41.7	26.0
April	.....	2.345	14	.767	45.5	51.3	31.5
May	.....	3.415	13	.718	57.1	62.1	40.0
June	.....	2.760	10	.712	62.7	67.1	44.0
July	.....	2.709	12	.713	63.2	67.7	43.0
August	.....	2.930	8	.787	63.5	69.8	33.5
September	.....	1.625	9	.751	58.4	62.7	23.0
October	.....	4.605	10	.869	49.3	52.9	22.0
November	.....	4.050	8	.938	37.9	41.7	18.5
December	.....	7.990	17	.948	36.7	39.7	

TOTAL.....47.466 . 135

Rain fell on 8 days when the wind was South, 4—S.W., 3—W., 5—N.W., 8—N.E., 43—E., 26—S.E. and 38 when calm.

The greatest fall of rain in 24 hours measured 2.260 inches, and was on the 20th March. The average fall for every day of the year was 0.130 inches, and for each wet day it was 0.352.

The amount of Ozone this year was very small, its mean daily number would be represented by 3 on the scale, and it seldom exceeded 6. During the greater part of October, November, and December, there was little indication of its presence. In November and the early part of December there were heavy fogs, during which there was no Ozone.

Comparison of mean results for three Years.

Years.	Rain,		Mean Temperature,		Min. on Grass	Humidity		Mean height of Barometer.	
	INCHES.	DAYS.	9.30. A.M.	3.30. P.M.		9.30. A.M.	3.30. P.M.	9.30. A.M.	3.30. P.M.
1860	54.420	151	49.9	54.0	15.5	.847	.766	29.942	29.919
1861	60.485	164	48.8	52.2	10.0	.764	.854	29.943	29.889
1862	47.466	135	46.8	51.2	15.0 below z.	.842	.772	29.983	29.963
Means.	54.124	150	48.5	52.5		.818	.797	29.956	29.924

Rain was more equally distributed throughout all the months this year than in 1860 or 1861.

In the winter months, January to March, and October to December, 31.682 inches of rain fell in 1862, 41.230 in 1861, and 40.586 inches in 1860. In the remaining months 15.785 inches fell in 1862, 19.255 in 1861 and 13.834 in 1860.

The prevailing direction of the wind during rain in each year was E. and S.E. The absolute limiting nights of frost in the three years were nearly the same.

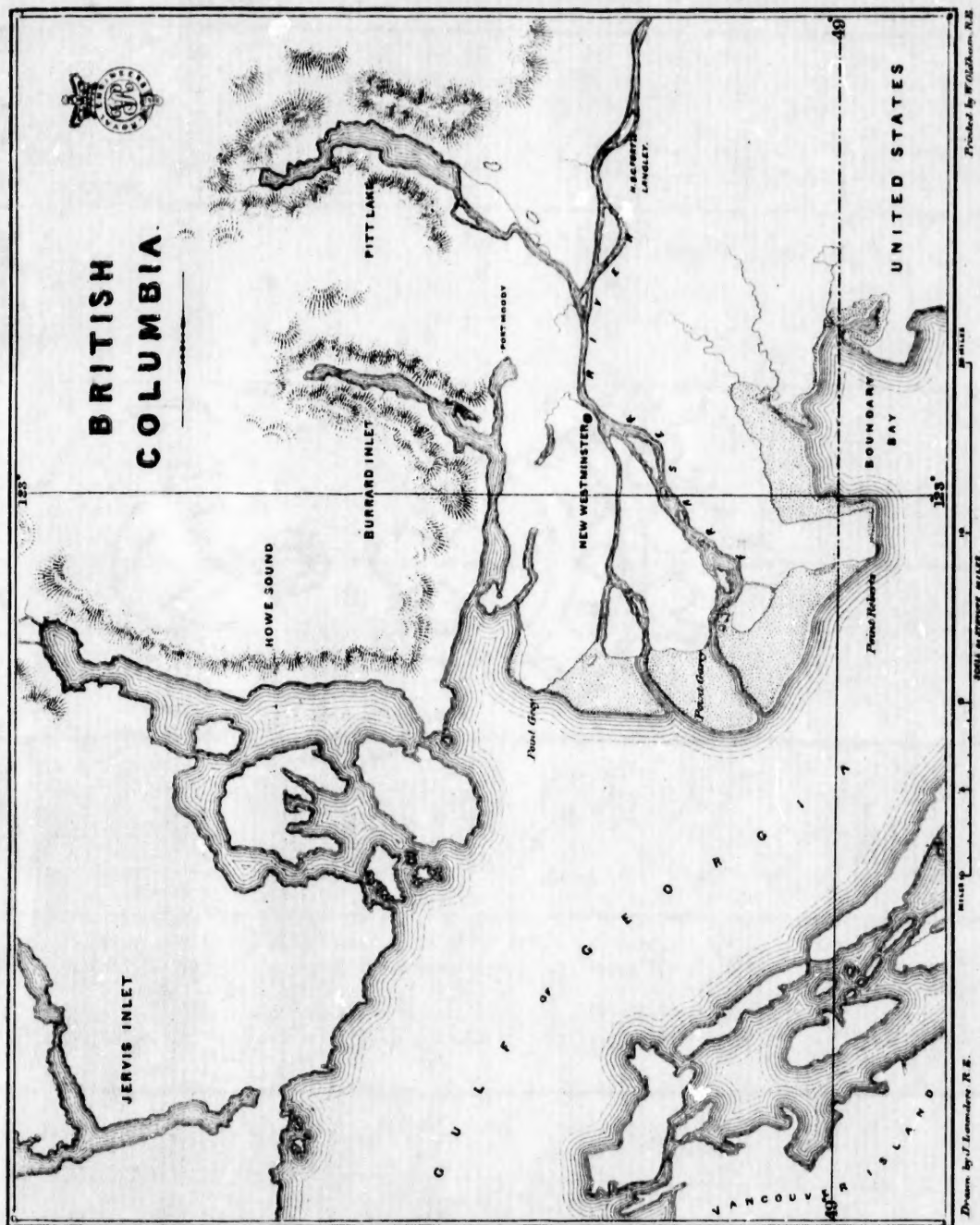
The Fraser River at New Westminster,

Year.	Highest level.	lowest level	Diff. of level	Remarks.
1860	12th June	4th March.	10.5 Feet	From 22nd May to 12 Aug. ships did not swing to the flood tide.
1861	8th June	17th March	9.5 Feet	" " 19th May to 10th Aug. Do. do.
1862	14th June	19th April	10.5 Feet	" " 1st May to 2nd September, Do. do.

Ice appeared on the 1st of January 1862, and the river at New Westminster was unnavigable on the 4th, it was completely frozen over on the 9th, and the Ice attained a thickness of 13 inches in the channel opposite the R. E. Camp, on the 12th of February. Sleighs were running from Langley, to several miles below New Westminster, and persons walked from Hope to the latter place, a distance of 80 miles on the ice, at the end of January. Lake Harrison and the other Lakes were frozen. Navigation from New Westminster was open to the mouth of the river on the 11th of March, and from Yale on the 12th April. Again on the 5th December, there was Ice in the River at New Westminster for one day. In January, 1861 there was ice at New Westminster, but the Navigation to the mouth of the River was not impeded. In 1860 there was no Ice.

The Observations were taken by 2nd Corporal P. J. LEECH, and Lance Corporal J. CONROY, R. E.

R. M. PARSONS, Captain R. E



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